

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011681

Luminaire Tested: S123DIP-B560D1025UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011681
REPORT IS A COMBINATION OF REPORTS P989924 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

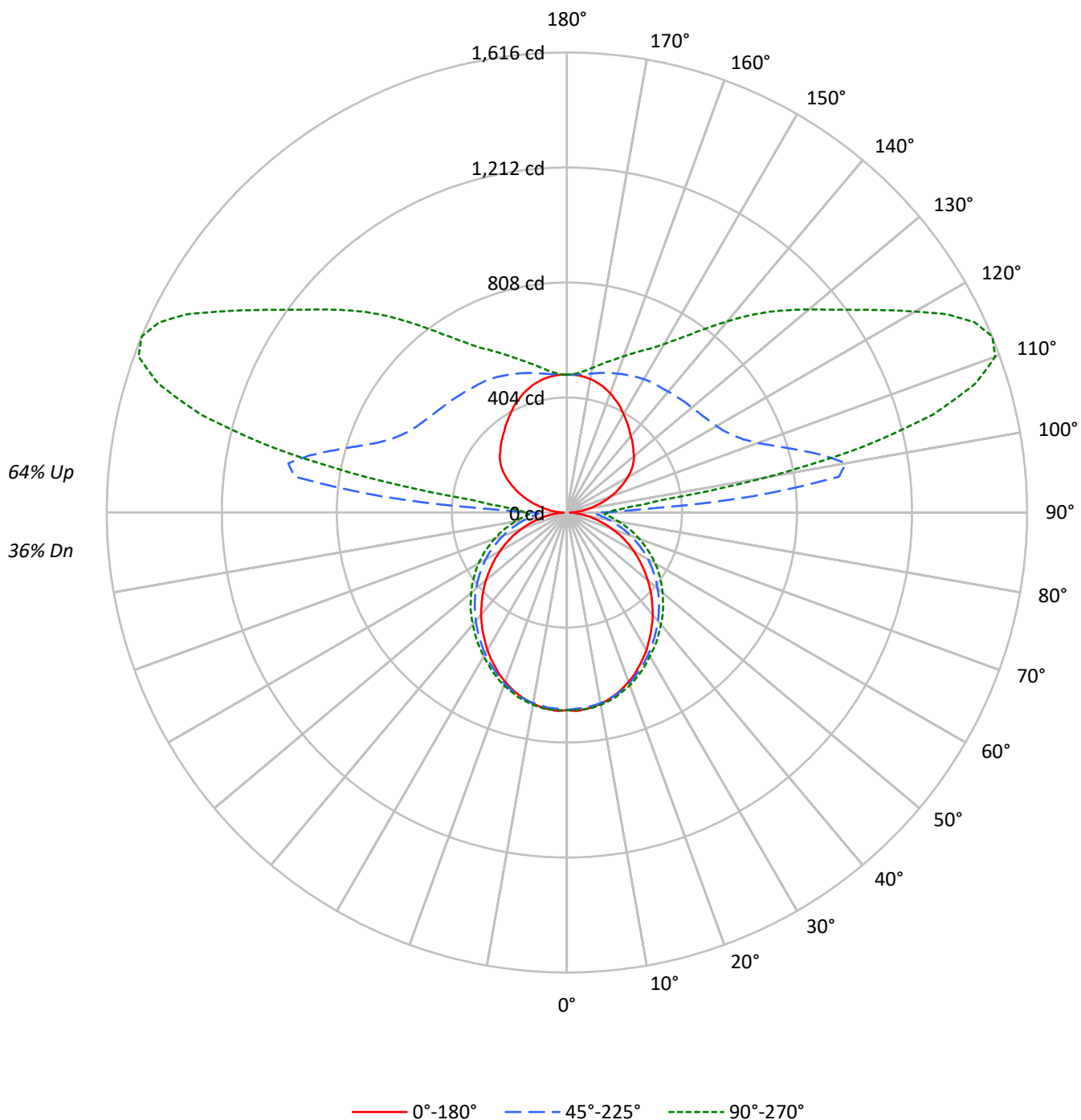
Lumens per Lamp: N/A
Luminaire Lumens: 5984.5 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43
1	94	89	85	81	85	81	77	74	65	62	60	50	49	47	37	36	35
2	85	77	71	66	77	70	65	60	56	53	49	44	41	39	32	30	29
3	77	68	60	54	70	61	55	50	49	45	41	38	35	32	28	26	24
4	71	60	52	46	64	54	47	42	44	39	35	34	30	28	25	23	21
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18
6	59	47	39	34	53	43	36	31	35	30	26	27	24	21	20	18	16
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	18	16	14
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7472	7472	7472
5°	7492	7253	7247
10°	7423	7056	7003
15°	7325	6840	6743
20°	7184	6598	6464
25°	7013	6325	6177
30°	6838	6078	5887
35°	6641	5820	5651
40°	6452	5584	5402
45°	6243	5355	5196
50°	6038	5128	4974
55°	5809	4895	4769
60°	5586	4657	4558
65°	5357	4403	4313
70°	5009	4120	4059
75°	4572	3795	3797
80°	4066	3466	3499
85°	3564	3200	3285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6243 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.1
10°-20°	187.7	3.1
20°-30°	280.7	4.7
30°-40°	335.2	5.6
40°-50°	350.7	5.9
50°-60°	329.1	5.5
60°-70°	274.9	4.6
70°-80°	196.5	3.3
80°-90°	119.7	2.0
90°-100°	348.5	5.8
100°-110°	822.7	13.7
110°-120°	785.6	13.1
120°-130°	617.4	10.3
130°-140°	480.4	8.0
140°-150°	353.4	5.9
150°-160°	245.2	4.1
160°-170°	144.1	2.4
170°-180°	46.9	0.8
0°-30°	534.3	8.9
0°-40°	869.5	14.5
0°-60°	1549.3	25.9
0°-90°	2140.4	35.8
90°-120°	1956.8	32.7
90°-150°	3408.0	56.9
90°-180°	3844.0	64.2
0°-180°	5984.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	695	693	689	695	694	66
15°	662	664	663	671	670	186
25°	597	605	607	617	617	275
35°	514	526	536	548	550	322
45°	420	439	458	472	478	324
55°	321	346	373	393	399	287
65°	222	251	284	307	315	219
75°	120	156	194	218	228	128
85°	37	75	115	141	148	38
90°	12	59	110	139	147	10
95°	42	146	656	268	220	42
105°	120	192	844	1455	1331	127
115°	205	263	643	1379	1580	203
125°	282	332	586	1059	1241	250
135°	329	391	564	862	995	254
145°	374	428	548	694	766	234
155°	424	458	530	602	628	195
165°	463	477	508	538	548	131
175°	483	483	487	494	493	46
180°	484	484	484	484	484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.2	694.2	694.2	694.2	694.2
2.5°	698.0	695.7	689.6	695.7	694.9
5°	694.9	693.4	688.9	694.9	694.2
7.5°	689.6	689.6	685.1	692.7	691.9
10°	682.1	683.6	679.8	687.4	685.9
12.5°	673.0	675.3	673.0	679.8	678.3
15°	661.7	663.9	663.2	670.7	670.0
17.5°	648.1	652.6	651.8	658.6	657.1
20°	632.9	637.5	639.0	645.8	646.5
22.5°	617.1	621.6	623.9	632.9	632.2
25°	597.4	605.0	607.2	617.1	617.1
27.5°	578.5	586.8	591.3	599.7	600.4
30°	558.1	567.9	573.9	583.0	583.0
32.5°	535.4	546.7	555.0	564.9	567.1
35°	514.2	526.3	536.1	547.5	550.5
37.5°	491.5	505.1	516.5	529.3	531.6
40°	468.8	482.4	497.6	510.4	513.5
42.5°	443.9	461.3	477.2	491.5	496.1
45°	420.4	438.6	457.5	471.9	477.9
47.5°	395.5	415.9	437.1	453.0	457.5
50°	371.3	392.5	415.9	433.3	438.6
52.5°	345.6	368.3	394.7	412.9	419.7
55°	320.6	345.6	372.8	393.2	399.3
57.5°	296.4	322.1	351.6	372.0	378.9
60°	270.7	297.9	328.9	350.1	358.4
62.5°	246.5	274.5	307.8	328.9	336.5
65°	221.6	251.1	284.3	307.0	314.6
67.5°	196.6	227.6	260.9	285.8	291.9
70°	170.1	202.7	239.0	263.2	270.7
72.5°	145.9	178.5	216.3	241.2	248.8
75°	120.2	155.8	193.6	218.5	227.6
77.5°	98.3	133.8	171.7	198.1	204.9
80°	74.9	111.9	151.2	176.9	184.5
82.5°	54.4	92.3	132.3	158.0	165.6
85°	37.1	74.9	114.9	140.7	148.2
87.5°	22.7	60.5	99.1	124.8	132.3
90°	11.8	58.6	109.9	138.6	147.1
92.5°	23.8	100.4	261.6	166.6	163.1
95°	41.6	146.0	655.8	267.8	219.5
97.5°	60.5	158.8	963.7	519.2	333.8
100°	79.3	167.7	993.5	979.2	709.5
102.5°	99.1	178.5	925.4	1276.1	1062.8
105°	119.6	192.2	844.3	1455.3	1330.8
107.5°	140.5	208.8	772.2	1530.8	1503.8
110°	163.2	225.8	712.6	1528.8	1600.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	184.8	243.8	670.9	1468.1	1616.5
115°	204.6	263.2	642.6	1379.3	1579.8
117.5°	225.2	280.7	621.3	1284.6	1506.7
120°	246.0	298.2	606.9	1194.9	1411.2
122.5°	264.6	315.6	596.2	1123.2	1322.5
125°	281.5	332.0	586.5	1059.0	1240.6
127.5°	295.2	348.8	579.8	1005.4	1169.4
130°	308.0	364.4	573.0	955.8	1109.2
132.5°	316.9	378.6	568.4	909.2	1051.6
135°	328.7	391.2	563.6	861.8	995.4
137.5°	339.5	402.0	558.5	816.0	936.9
140°	349.6	411.8	554.5	772.2	876.3
142.5°	361.3	419.8	549.6	730.8	818.9
145°	374.0	427.6	547.6	694.2	766.4
147.5°	386.0	436.0	544.7	665.0	721.4
150°	398.7	442.8	540.8	640.2	682.4
152.5°	411.5	450.2	535.9	620.6	651.5
155°	424.2	457.5	530.0	602.5	628.0
157.5°	434.0	463.9	525.1	584.9	605.4
160°	445.7	469.3	519.2	568.7	583.9
162.5°	454.6	473.2	513.3	553.5	564.3
165°	463.4	476.6	507.5	538.3	547.6
167.5°	470.2	479.6	501.6	525.1	531.0
170°	476.1	481.0	495.7	513.3	516.3
172.5°	480.0	482.5	490.8	503.0	502.6
175°	483.0	483.4	486.9	493.7	492.8
177.5°	484.9	483.9	483.9	487.9	485.9
180°	483.9	483.9	483.9	483.9	483.9

(END OF REPORT)